

CLAIMS

1. A broadcast receiving apparatus comprising:
receiving means for receiving a first TV broadcast signal and a second TV broadcast signal;
first decoding means for decoding the first TV broadcast signal received by the receiving means;
second decoding means for decoding the second TV broadcast signal received by the receiving means;
detecting means for detecting a decoding error part of the first TV broadcast signal decoded by the first decoding means; and
synthesizing means for generating a composite signal obtained by replacing the decoding error part of the first TV broadcast signal detected by the detecting means with a corresponding part of the second TV broadcast signal decoded by the second decoding means.
2. The apparatus according to Claim 1, wherein at least one of the first decoding means and the second decoding means decodes the TV broadcast signal with use of the composite signal generated by the synthesizing means.
3. The apparatus according to Claim 1, wherein the first decoding means and the detecting means constitute decoding and detecting means for decoding the first TV broadcast signal and detecting the decoding error part of the first TV broadcast signal during decoding of the first TV broadcast signal to output a detection result to the synthesizing means.
4. The apparatus according to Claim 1, further comprising first storing means for storing the first TV broadcast signal decoded by the

first decoding means, and

second storing means for storing the second TV broadcast signal decoded by the second decoding means, wherein

the synthesizing means reads out the decoded first TV broadcast signal from the first storing means and the decoded second TV broadcast signal from the second storing means, and generates a composite signal obtained by replacing the decoding error part of the first TV broadcast signal detected by the detecting means with a corresponding part of the second TV broadcast signal read out by the second storing means.

5. The apparatus according to Claim 1, further comprising timesharing means for timesharing the first TV broadcast signal and the second TV broadcast signal received by the receiving means for outputting, wherein

the first decoding means and the second decoding means constitute a single decoding means for alternately decoding the first TV broadcast signal and the second TV broadcast signal timeshared by the timesharing means.

6. The apparatus according to Claim 5, further comprising first storing means for storing the composite signal outputted from the synthesizing means, and

second storing means for storing the second TV broadcast signal decoded by the single decoding means, wherein

the synthesizing means is operative to store the second TV broadcast signal decoded by the single decoding means in the first storing means if the detecting means has not detected the decoding error part of the first TV broadcast signal, and is operative to read out the part of the second TV broadcast signal corresponding to the decoding error part from the second storing means to store the

readout part in the first storing means if the detecting means has detected the decoding error part of the first TV broadcast signal.

7. The apparatus according to Claim 6, wherein the single decoding means decodes the first TV broadcast signal with use of the composite signal stored in the first storing means if the detecting means has detected the decoding error part of the first TV broadcast signal.

8. The apparatus according to Claim 4, wherein the single decoding means and the detecting means constitute decoding and detecting means for decoding the first TV broadcast signal corresponding to the second TV broadcast signal after decoding the second TV broadcast signal, and detecting the decoding error part of the first TV broadcast signal during decoding of the first TV broadcast signal to output a detection result to the synthesizing means.

9. The apparatus according to any one of Claims 1 through 8, wherein

the first TV broadcast signal and the second TV broadcast signal are each a digital TV broadcast signal, and

the first TV broadcast signal has a content identical to a content of the second TV broadcast signal, and provides video of a quality higher than a quality of the second TV broadcast signal.

10. The apparatus according to Claim 9, wherein the second TV broadcast signal is a broadcast signal for use in broadcasting under rainfall for the first TV broadcast signal.

11. The apparatus according to any one of claims 1 through 8, wherein

the first TV broadcast signal and the second TV broadcast signal are each a digital TV broadcast signal, and

the first TV broadcast signal has a content identical to a content of the second TV broadcast signal, and is a signal modulated by a modulation system having a viewable receiving C/N ratio higher than a viewable receiving C/N ratio of a modulation system applied to the second TV broadcast signal.

12. A broadcast receiving method comprising:

a receiving step of receiving a first TV broadcast signal and a second TV broadcast signal;

a first decoding step of decoding the first TV broadcast signal received in the receiving step;

a second decoding step of decoding the second TV broadcast signal received in the receiving step;

a detecting step of detecting a decoding error part of the first TV broadcast signal decoded in the first decoding step; and

a synthesizing step of generating a composite signal obtained by replacing the decoding error part of the first TV broadcast signal detected in the detecting step with a corresponding part of the second TV broadcast signal decoded in the second decoding step.

13. A broadcast receiving program for causing a computer to function as:

detecting means for detecting a decoding error part of a decoded first TV broadcast signal; and

synthesizing means for generating a composite signal obtained by replacing the decoding error part of the first TV broadcast signal detected by the detecting means with a corresponding part of a decoded second TV broadcast signal.

14. A broadcast receiving circuit comprising:
 - a first decoding circuit for decoding a first TV broadcast signal;
 - a second decoding circuit for decoding a second TV broadcast signal;
 - a detecting circuit for detecting a decoding error part of the first TV broadcast signal decoded by the first decoding circuit; and
 - a synthesizing circuit for generating a composite signal obtained by replacing the decoding error part of the first TV broadcast signal detected by the detecting circuit with a corresponding part of the second TV broadcast signal decoded by the second decoding circuit.